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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/903,573	07/13/2001	Katsumi Takaoka	24703	9588
7:	590 05/24/2004	004 EXAMINER		INER
NATH & ASSOCIATES			MALZAHN, DAVID H	
Sixth Floor 1030 Fifteenth Street, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20005			2124	5
			DATE MAILED: 05/24/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

				M.			
		Application No.	Applicant(s)				
Office Action Summary		09/903,573	TAKAOKA, KATS	UMI ·			
		Examiner	Art Unit				
		David H. Malzahn	2124				
	The MAILING DATE of this communication ap	ppears on the cover sheet w	vith the correspondence ad	ldress			
Period fo		VIC CET TO EVEIDE AM	AONTH(C) EDOM				
THE I - Exter after - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing adparent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ply within the statutory minimum of th d will apply and will expire SIX (6) MO te, cause the application to become A	reply be timely filed  irty (30) days will be considered timel  NTHS from the mailing date of this c  BANDONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on						
· /—	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposit	ion of Claims						
4)⊠	Claim(s) 1-17 is/are pending in the applicatio	n.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
·	Claim(s) <u>1-17</u> is/are rejected.						
•	Claim(s) is/are objected to.						
8)[_]	Claim(s) are subject to restriction and/	or election requirement.					
Applicat	ion Papers						
9)	The specification is objected to by the Examin	ner.					
10)⊠ The drawing(s) filed on <u>13 July 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11)	The dath of declaration is objected to by the b	Examiner. Note the attache	ed Office Action of form P	10-132.			
Priority (	under 35 U.S.C. § 119						
12)⊠	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documer						
	2. Certified copies of the priority documer			Otana			
	<ol> <li>Copies of the certified copies of the pri application from the International Burea</li> </ol>	•	n received in this National	Stage			
* 5	See the attached detailed Office action for a lis		t received				
	and all distance dotains of the dotter for distance						
Attachmen	tte)						
	e of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)				
2) Notic	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date <u>3 &amp; 4</u> .	6) Notice of Cher:	miormai Materit Application (P10	J-132)			
	rademark Office						

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#### **DETAILED ACTION**

# Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-17 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-22 of copending Application No. 09/891,392. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant claims are merely apparatus claims corresponding to the method claims of 09/891,392.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

### Claim Rejections - 35 USC § 112

3. Claims 5-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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In line 23 of claims 5 and 8 the phrase "the discrete Fourier operation means" lacks clear antecedent basis. The last fourteen lines of claim 11, lines 16-27 of claim 12 and the last twenty lines of claims 14 and 16 are the recitation of function without adequate structural basis.

## Specification

4. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

### Drawings

5. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "plural data updating means" of claim 14, lines 12-16, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on 703 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David H. Malzadın Primary Examiter Art Unit 2124